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UNIVERSITY OF ILLINOIS BULLETIN

ISSUED WEEKLY

Vol. XXII

NOVEMBER 24, 1924

No. 13

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PROGRAM

FARMERS' WEEK

College of Agriculture, University of Illinois
January 12-17

1925

Urbana-Champaign

YOUR INVITATION

THE coming Farmers' Week promises to be one of unusual interest. The Illinois Agricultural Association has been functioning for a number of years in the state and this is the first time the College of Agriculture has been able to secure their consent to bring their meeting to the University.

You will be welcome at Farmers' Week whether or not you are a member of the Farm Bureau or the Illinois Agricultural Association. There will be two and a half days of the regular Farmers' Week program, and the last two days will be turned over to the Illinois Agricultural Association for its program. Regardless of whether you are a member of the Farm Bureau or the Illinois Agricultural Association, you are interested in your own welfare and in the welfare of agriculture. Farmers' Week will give you an unusual opportunity to see this strong farmers' organization and its representatives at work in annual session. This will make it possible for you to learn what this organization is doing to further the interests of Illinois farmers.

I know of no other opportunity that is likely to come to the farmers of Illinois this winter that will make it possible for them to spend five days more profitably than at Farmers' Week. Please consider this a personal invitation to you to come.

H. W. Mumford

Dean and Director, College of Agriculture
and Agricultural Experiment Station

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UNIVERSITY OF ILLINOIS

REDUCED RAILROAD FARES

The Western Passenger Association has granted a rate of one and one-half fare for round trip to Farmers' Week and the Annual Meeting of the Illinois Agricultural Association, Urbana, Illinois, effective January 10 to 19, 1925, inclusive.

This reduction will apply from points in Illinois, also from St. Louis, Mo., wherever the regular round trip is \$1 or more.

No stop-overs will be allowed.

No certificates will be required as the individual lines will publish tariffs authorizing agents to sell tickets on the reduced fare basis.

It will be necessary to travel the same route on the return trip.

For those traveling over lines that are not in the Western Passenger Association territory, it will be to their advantage to buy a single fare to the nearest junction point connecting with the lines offering the reduced fare, then buy round trip ticket from that point.

The following is a list of the railroads on which the reduced fares will apply:

- Chicago & Northwestern
- Chicago, Milwaukee & St. Paul
- Chicago, Rock Island & Pacific
- Chicago, Burlington & Quincy
- Minneapolis & St. Louis
- Soo Line
- Chicago Great Western
- Illinois Central
- Chicago & Eastern Illinois
- Wabash Railway
- Chicago & Alton
- Atchison, Topeka & Santa Fe

It may be possible that some of the lines listed above may feel they are not sufficiently interested to warrant the issuing of tariffs granting the reduction. It will be advisable for those concerned to inquire of the station agent regarding the reduced fares so that in the event some line has taken no action they can purchase tickets to the nearest junction point of another line. In this way we believe the situation can be handled to the best advantage.

Farm Equipment Exhibits

This is an invitation for you to inspect the equipment in the Farm Mechanics Building. In addition to a large assortment of equipment such as found on the average farm in the State, you will find special exhibits as follows:

1. Harvester Thresher *1st Floor*
Three men can cut, thresh, and bin as much as 30 acres of small grain or soy beans in one day with this machine. A machine that can lower production costs.
2. Corn Picker and Husker *1st Floor*
A mechanical corn picker and husker operated from a power take off. A machine that has solved the husking problem on many farms.
3. Farm Building Models and Plans *Building Entrance*
If you are interested in building, see the models of barns, hog houses, corn cribs, poultry houses, etc. You will also find a large selection of available blueprint plans of farm buildings.
4. Farm Implements *2nd and 3rd Floors*
The large assortment of plows, drills, disk harrows, planters, binders, manure spreaders, lime spreaders, etc., will be of interest to those that appreciate the importance of modern equipment in economical crop production.
5. Modern Farm Home Equipment *1st Floor*
An exhibit of pneumatic, hydro-pneumatic, and gravity water systems, 32 and 110 volt lighting plants, washing machines, water heaters, etc., that can be used in making the farm home mechanically convenient.
6. Soil Erosion Model and Terracing Equipment *1st Floor*
This exhibit will show you methods and equipment used by Illinois farmers to fight soil erosion, which is the greatest economic waste on many farms.
7. Tractor and Gas Engines *1st Floor*
This equipment covers 6800 square feet of floor space. Illinois is one of the leading states in the use of mechanical power on farms.

SPECIAL INSPECTION TRIP

You may be interested in seeing the soft corn drying equipment being used by the Agronomy and Farm Mechanics Departments. Representatives from these two departments will describe the corn drying experiments. Free transportation. Cars will leave the Farm Mechanics Building at 9, 10, and 11 A. M., Monday, January 12th, and at 8 and 9 A. M., Thursday, January 15th.

*Follow the arrows to the
Farm Mechanics Building.*

ANNOUNCEMENT

Expenses

The only expenses of attending Farmers' Week, which has been held annually since 1898, will be those of travel and board, since there are no registration fees. Those in attendance will be requested to register at the Auditorium as soon as possible after their arrival.

Railroad Rates

The railroads of the state in the Western Passenger Association have granted a reduced rate of one and one-half fare for the round trip. Ask for special rate to Farmers' Week and buy a return ticket to Urbana or Champaign.

Board and Room Accommodations

The University Y. M. C. A. near the campus at the corner of Wright and John Streets, Champaign, will as usual make an effort to locate rooms in private homes that will be available to visitors for the week. All applications for such rooms should be made at the Y. M. C. A. Accommodations may also be secured at the Inman Hotel, Champaign, and the Urbana-Lincoln Hotel, Urbana, European, \$1.75 and up per person; and Beardsley, Hamilton, Commercial Hotels, Champaign, and McClurg and Columbian Hotels, Urbana, European, \$1.50 and up per person.

Program

The program for Farmers' Week as supplied by the College of Agriculture will begin Monday noon and continue through Wednesday, January 12-14, 1925. The work offered will center around the general Extension Service programs as outlined by the Departments of the College for the year.

Wednesday evening program, January 14, will be at the Stock Judging Pavilion. The students of the College of Agriculture will hold a "Little International."

The program for Thursday and Friday, January 15 and 16, will be given over to the annual meeting of the Illinois Agricultural Association. A program for this meeting can be obtained by writing Mr. Geo. A. Fox, Secretary, 608 South Dearborn Street, Chicago, Illinois, or The College of Agriculture, Urbana, Illinois.

Illinois Seed Grain Show

The Illinois Seed Grain Show, including the fifth annual Utility Corn Show, will be held in connection with Farmers' Week and promises to be of much greater interest than any previous show. It is being sponsored by the College of Agriculture, the Illinois Crop Improvement Association, and the Illinois Bankers' Association, which latter organization has provided \$500 for the payment of substantial cash prizes for all corn classes. The Utility Corn Score Card will be used and the germination test will be required of all samples. Corn entered in this show must be at the College of Agriculture, Urbana, Illinois, not later than Wednesday, December 31, 1924. Special premium list and other information regarding the Illinois Seed Grain Show will be sent, on request to the College of Agriculture, Urbana.

PROGRAM

MONDAY, JANUARY 12, 1925

No meetings will be held Monday forenoon. This time will be used for registration in the Auditorium. Opportunity will be afforded for inspection of the Agricultural Buildings, Museum in the Natural History Building, and farm machinery equipment in the Farm Mechanics Building.

Afternoon Session—Auditorium

1:30—Department of Farm Management

- (a) Finding the Farm Leaks—M. L. Mosher
- (b) What Farm Cost Studies Show—H. C. M. Case
- (c) Changes in Prices of Farm Products—L. J. Norton
- (d) Factors Affecting Prices of Farm Products—C. L. Stewart

Evening Session—Auditorium

Dr. J. C. Blair, Head of the Department of Horticulture, Presiding

7:30—Musical selection by the School of Music, University of Illinois

Address—Rational Organization—Dr. Eugene Davenport, Dean and Professor Emeritus, College of Agriculture, University of Illinois, Woodland, Michigan.

TUESDAY, JANUARY 13

Morning Session—Stock Pavilion

8:30—Department of Dairy Husbandry

- (a) Herd Improvement by Breeding and Selection. Exhibit of Progeny of Dairy Bulls—W. W. Yapp and M. H. Campbell
- (b) Sweet Clover Pastures—W. J. Fraser
- (c) Vitamines and Minerals in Feeding Dairy Cattle—W. B. Nevens
- (d) What the Farmer Should Know About Live Stock Sanitation—Dr. I. B. Boughton

12:00—"Get-Together" Luncheon will be served at place to be announced later. A luncheon talk will be given by Professor G. C. Humphrey, Head of Animal Husbandry Department, College of Agriculture, University of Wisconsin, Madison, Wisconsin.

Afternoon Session—Stock Pavilion

1:30—Department of Animal Husbandry

- (a) Construction and Location of Farm Buildings from the Standpoint of Sanitation—W. A. Foster
- (b) Demonstration on Cleaning and Disinfecting Hog Houses—Dr. I. B. Boughton, R. J. Laible
- (c) Swine Management with Particular Reference to Sanitation—R. J. Laible
- (d) Swine Sanitation as it Works out in Practice—E. T. Robbins
- (e) Sheep Sanitation—W. G. Kammlade
- (f) Sanitation for the Farm Poultry Flock—L. E. Card
- (g) Report of Progress on Some Experiments on Disease Resistance of Animals—E. Roberts

Evening Session—Auditorium

Dean H. W. Mumford, College of Agriculture, Presiding

7:30—Musical selection by the School of Music, University of Illinois

Address—Honorable H. M. Gore, Secretary, U. S. Department of Agriculture, Washington, D. C.

WEDNESDAY, JANUARY 14

Morning Session—Auditorium

8:30—Department of Horticulture

- (a) What Shall we do With the Farm Orchard?—W. S. Brock
- (b) The Control of Diseases Attacking Small Fruits—A. S. Colby
- (c) Bacterial Shot Hole of the Peach—H. W. Anderson
- (d) Disease-resistant Strains of Vegetables—C. B. Sayre
- (e) Reducing the Costs of Marketing Fruits and Vegetables—J. W. Lloyd
- (f) Illinois Landscapes—J. C. Blair

Afternoon Session—Auditorium

1:30—Department of Agronomy

- (a) Corn Diseases and their Economic Importance in Illinois—J. R. Holbert, W. L. Burlison
- (b) Some Physiologic Disturbances in Corn, and their Significance—C. F. Hottes
- (c) The Soil as a Factor in Corn Disease Control—F. C. Bauer

3:30—Annual Utility Corn and Seed Grain Show—Fourth Floor, New Agricultural Building

6:30—Fourth Annual Meeting and Dinner, Illinois Crop Improvement Association, Urbana-Lincoln Hotel, Urbana

“The Lessons of Twenty Years of Crop Improvement Work”—L. H. Newman, Dominion Cerealists, President of International Crop Improvement Association, Ottawa, Canada

“The Responsibilities of State Crop Improvement Associations”—Geo. E. Farrell, Agriculturist, U. S. D. A., Washington, D. C.

This meeting is not restricted to members. Anyone interested in Crop and Seed improvement is invited to attend the banquet and program which follows. The annual business meeting for members will be held immediately after the program.

WEDNESDAY, JANUARY 14

Evening Session—Stock Pavilion—South Campus

4:00 to 9:00 P. M.

LITTLE INTERNATIONAL

Management:—The Various Agricultural Students' Clubs.

Livestock:—Beef Cattle, Dairy Cattle, Sheep, Swine, Poultry, and Horses.

Representative specimens from the extensive studs, herds, and flocks maintained by the University of Illinois for instructional and experimental purposes.

Meat Show:—An educational exhibit for breeder, feeder, and consumer.

Laboratory Material:—From the divisions of Genetics, Nutrition, and Animal Pathology.

Admission:—Adults 50 cents, Children free.

All net proceeds accruing from the show will be used to defray the expense connected with the student livestock judging teams which annually represent the University of Illinois in National and International Judging Contests.

Thursday and Friday, January 15 and 16

The annual meeting of the Illinois Agricultural Association will be held Thursday and Friday of Farmers' Week. Reports will be given on the progress of the state association's accomplishments for the year 1924. An open forum discussion on grain marketing led by Hon. T. A. Crerar, president of the United Grain Growers, Ltd., of Winnipeg, Canada, or some other executive of that organization, will take place Thursday afternoon, as well as an open discussion on the farmers' relation to the school problem which will be led by G. W. Willets, director of the school survey made by the Illinois Agricultural Association during the summer. Co-operative marketing will also be given a prominent place on the program. In the evening there will be a banquet at which President David Kinley of the University of Illinois will speak. An election of executive committeemen will be held preceding the banquet and the officers will be elected following the banquet. Friday's program calls for discussion of programs of work of the departments of the Illinois Agricultural Association with Geo. A. Fox, executive secretary, in the chair. Reports of special committees will be made on this day and general business attended to.

Official programs will be on hand during Farmers' Week.

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UNIVERSITY OF ILLINOIS BULLETIN

ISSUED WEEKLY

Vol. XXI

JANUARY 21, 1924

No. 21

[Entered as second-class matter December 11, 1912, at the post office at Urbana, Illinois, under the Act of August 24, 1912. Acceptance for mailing at the special rate of postage provided for in section 1103, Act of October 3, 1917, authorized, July 31, 1918.] Published by the University of Illinois, Urbana.

PROGRAM

FARMERS' WEEK

College of Agriculture, University of Illinois

January 21-25

1924

Urbana-Champaign

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UNIVERSITY OF ILLINOIS

YOUR INVITATION

AS this program goes to press the good cheer of the holiday season is upon us. My best wish is that it may bring new hope, new courage, and new faith to the farmers of Illinois.

I am well aware that these are days when the farmers are scrutinizing with unusual care the use of time and money. There will be many men who receive this program who will say, "I would like to go, but I wonder after all whether it will pay." Almost everybody who has come in previous years has said that it paid him. We believe it will pay you.

Your presence here will be a source of encouragement to our College faculty and Experiment Station staff, and the contacts and acquaintances made will be helpful in keeping us in close touch with your problems and more helpful in meeting them. Possibly of equal importance is the opportunity such a meeting affords those in attendance of coming in contact with leading farmers from all parts of the state.

Please consider this a personal invitation to you to come.



Dean and Director, College of Agriculture
and Agricultural Experiment Station

RAILROADS GRANT REDUCED RATES

Reduced railroad rates. One and one-half fare (minimum \$1.00) for round trip from all stations in Illinois and from St. Louis, Mo., to Urbana and Champaign, during Farmers' Week. Tickets on sale January 19-26, inclusive; return limit, January 28, 1924.

The Western Passenger Association submits the following under date November 20, 1923:

"We take pleasure in advising that the following arrangement has been authorized by our lines, which we trust will be satisfactory:

"Open rate of FARE AND ONE-HALF with minimum excursion fare of \$1.00 from points in Illinois, also, from St. Louis, Mo., to Urbana and Champaign and return; excursion tickets to be sold on January 19-26, inclusive, with final return limit of January 28, 1924. No stopovers to be allowed.

Yours truly,
EBEN E. MACLEOD,
Chairman"

The Central Passenger Association writes as follows under date November 12, 1923:

"Your request for special fares on account of Farmers' Week, January 21-26, 1924, was submitted to interested carriers of this Association, as result of which lines in Central Passenger Association operating in the State of Illinois advise they will institute open rate of one and one-half fare for the round trip to Urbana or Champaign, from points in the State of Illinois and from St. Louis, Mo., except the L&N RR and Southern Ry which operate only east and west in the State, will not institute special fares; minimum fare \$1.00; half of the concession for children of half-fare age; selling dates January 19 to 26; final return limit to reach original starting point not later than January 28; tariffs to be issued by the individual carriers.

Yours truly,
C. A. Fox,
Chairman"

ANNOUNCEMENT

Expenses

The only expenses of attending Farmers' Week will be those of travel and board, since there are no registration fees. Those in attendance will be requested to register at the main office of the Agricultural Building as soon as possible after their arrival.

Railroad Rates

The railroads of the state have granted a reduced rate of fare and a half, round trip. Ask for special rate to Farmers' Week and buy a return ticket to Urbana or Champaign.

Board and Room Accommodations

The University Y. M. C. A. near the campus at 614 East Green Street, Champaign, will as usual make an effort to locate rooms in private homes that will be available to visitors for the week. All applications for such rooms should be made at the Y. M. C. A. Accommodations may also be secured at the Hotel Inman, the Beardsley, the Hamilton, Champaign, European, \$1.50 and up per person, the Urbana-Lincoln Hotel, Urbana, European, \$1.75 and up per person.

Aside from cafes in connection with hotels, there are numerous places where meals can be had both in the down-town and in the University districts.

Program

The general sessions on Monday afternoon and Tuesday, January 21 and 22 and the evening programs will give prominence to the economic side of farming, that phase which has to do with marketing, efficient management of the business of farming and the conduct of the farm as a productive and economic unit.

On Wednesday, Thursday and Friday morning, January 23, 24, 25, eight different sections—Agronomy, Animal Husbandry, Dairy Husbandry, Farm Management, Farm Mechanics, Horticulture, Floriculture and Beekeeping—will each hold fifteen class periods or one hundred and twenty different classes devoted to lectures, discussions and demonstrations. It is desirable to select a line of work, as Farm Management, Horticulture, or Beekeeping and follow it consistently for the entire week with the thought of returning and taking up a selected subject next year. However, each may choose as he desires from the various programs and select the subjects in which he is most interested.

Illinois Seed Grain Show

The Illinois Seed Grain Show, including the fourth annual Utility Corn Show will be held in connection with Farmers' Week and promises to be of much greater interest than any previous show. It is being sponsored by the College of Agriculture, the Illinois Crop Improvement Association and the Illinois Bankers' Association, which latter organization has provided \$500.00, for the payment of substantial cash prizes for all corn classes. The Utility Corn Score Card will be used and the germination test will be required of all samples. Corn entered in this show must be at the College of Agriculture, Urbana, Illinois, not later than Wednesday, January 9, 1924. Special premium list and other information regarding the Illinois Seed Grain Show will be sent, on request to the College of Agriculture, Urbana.

The new Agricultural Building will be dedicated Friday afternoon, January 25, and a "Good Fellowship" banquet will be held that evening, as a "round-up" feature of the meeting.

PROGRAM

MONDAY, JANUARY 21, 1924

No classes or meetings will be held Monday forenoon. This time will be used for registration in the general offices of the Agricultural Building. Opportunity will be afforded for inspection of the Agricultural Buildings, Museum in the Natural History Building and farm machinery and equipment in the Farm Mechanics Building.

Afternoon Session—Auditorium

C. M. Thompson, Dean of College of Commerce and Business
Administration, Presiding

1:30—Opening Remarks.

The Farmers' Interest in Taxation. John C. Watson, Illinois Agricultural Association, Chicago; Frank I. Mann, Gilman, Illinois.
General Discussion.

Evening Session, Monday—Auditorium

R. E. Hieronymus, Presiding

Musical selection by the School of Music, University of Illinois.

7:30—The Contribution of the Rural Church to Agriculture. Dr. Warren H. Wilson, Teachers' College, Columbia University, New York.

TUESDAY, JANUARY 22

Morning Session—Auditorium

Mr. S. H. Thompson, Quincy, Illinois. President Illinois Agricultural Association, Presiding.

8:30—Recent Progress and a Forward Look in Marketing Organizations.

(a) Live Stock Producers. S. W. Doty, Manager Chicago Producers' Commission Association, Union Stock Yards, Chicago.

(b) Fruit and Vegetable Marketing. A. B. Leeper, Illinois Agricultural Association, Chicago.

(c) Dairy Marketing. H. A. Ross, Cornell University, Ithaca, New York.

What Methods of "Big Business" may be Applied to Cooperative Marketing of Agricultural Products? George E. Frazer, Chicago.

Afternoon Session, Tuesday—Auditorium

Mr. E. A. Eckert, Mascoutah, Illinois. Master Illinois State Grange, Presiding.

The program for this session is supplied through the courtesy of the Freight Claim Division, American Railway Association, Chicago.

Consideration will be given to the factors involved in packing, handling and transportation of perishable farm crops, such as fruits and vegetables, dairy and poultry products, the loading of cars with live stock and grains; to the end that causes leading to transportation failures may be studied and rectified and a better understanding established between producers, shippers and ultimate consumers.

1:30—These subjects will be discussed: "From a Loss and Damage Prevention Standpoint." F. E. Winburn and Joe Marshall, Special Representatives, Freight Claim Prevention, American Railway Association, Chicago.

Egg Case Construction, Packing and Loading—Illustrated with Model Demonstration Car. F. F. Frye, Western Weighing and Inspection Bureau, Chicago.

Shipping of Live Stock, Proper Care of Same to Prevent Death and Loss in Transit. (Illustrated with lantern slides and moving pictures.) Dr. W. J. Embree, Western Weighing and Inspection Bureau, Chicago.

Evening Session, Tuesday—Auditorium

Honorable H. M. Dunlap, Savoy, Presiding.

Musical selection by the School of Music, University of Illinois.

- 7:30—Selective Immigration or alien rule—Which? Honorable James B. Aswell, Washington, D. C., Congressman from Louisiana and former State Superintendent of Education.

WEDNESDAY, JANUARY 23

Evening Session—Auditorium

Dean Herbert W. Mumford, Presiding

Musical selection by the School of Music, University of Illinois.

- 7:30—Address. George E. Roberts, New York City, New York, Vice President, The National City Bank.

Rural Health and Happiness. Dr. George E. Vincent, New York City, New York, President Rockefeller Institute.

THURSDAY, JANUARY 24

Evening Session—Auditorium

Mr. W. C. Corsa, White Hall, Illinois, Presiding

Musical selection by the School of Music, University of Illinois.

- 7:30—Horse and Mule Pulling Contest at The Iowa Experiment Station, Ames, Iowa. Iowa State Fair, Des Moines, Iowa. National Horse Show, New York City, New York.

(Illustrated with lantern slides and moving pictures.) With reference to their bearing on future breeding operations. Wayne Dinsmore, Chicago, Illinois. Secretary Horse Association of America, Union Stock Yards.

FRIDAY, JANUARY 25

Afternoon Session—Auditorium

- 1:30—Dedication of New Agricultural Building. Addresses by Dean Emeritus E. Davenport, Woodland, Michigan. Herbert W. Mumford, Dean College of Agriculture, and others. A special program will be issued for this occasion.

- 6:00—"Good Fellowship" Banquet. Sleeter Bull, Chairman of Committee on Arrangements. Mr. Harvey J. Sconce, Sidell, Illinois, toastmaster.

DEPARTMENT OF AGRONOMY

Sections or classes in Agronomy for the study of Farm Crops and Soils will meet in the Auditorium both morning and afternoon sessions on Wednesday and Thursday and for the morning session on Friday.

Wednesday, January 23

Morning Session

- 8:30—Some Significant Aspects of our U. S. Forage Problem. C. V. Piper, Washington, D. C.
- 9:40—Alfalfa Symposium—Environmental Factors Affecting the Distribution of Alfalfa in the United States. W. L. Burlison. Soil Conditions Influencing Alfalfa Production in Illinois. F. C. Bauer. Seeding, Varieties and Sources of Seed. J. C. Hackleman.
- 10:50—Cultural Practices, including Time of Cutting. John Pieper. Insect Enemies of Alfalfa. W. P. Flint. Importance of Alfalfa to the Farmer. M. L. Mosher.

Afternoon Session

- 1:30—Progress of Corn Disease Investigations. J. R. Holbert, Bloomington, Ill. The Relation of the Environment to the Healthy and Diseased Plant. C. F. Hottes. Resistant Strains and Their Value to the Farmer. C. M. Woodworth.
- 2:40—UTILITY CORN SHOW in Corn Show Room. Performance of Utility Seed Corn in Illinois. J. C. Hackleman.

Thursday, January 24

Morning Session

- 8:30—Iowa's Program for Soil Improvement. W. H. Stevenson, Iowa State College, Ames, Iowa.
- 9:40—The Relation of Soil Treatment to the Cost of Production. F. C. Bauer. The Cost of Production as Influenced by:
- 10:50—(a) The Effective Utilization of Farm Manures. H. J. Snider.

Afternoon Session

- 1:30—(b) Limestone (Fineness of grinding; Rate, Time and Place of Application). E. E. DeTurk.
- 2:40—(c) Legumes: Their Relation to Profitable Farm Practice; The Relative Efficiency of Different Legumes. O. H. Sears.
- 3:50—(d) Rotations: Place and Amount of Legumes in Relation to Other Crops in the Rotation; Suggested Rotations for Different Sections. L. H. Smith.

Friday, January 25

Morning Session

- 8:30—The Soil Survey as a Means of Determining the Economic Utilization of Land. R. S. Smith.
- 9:40—The Economic Utilization of Marginal Lands in Illinois: (a) Reforestation; (b) Permanent Pastures. A. N. Abbott, Morrison, Illinois.
- 10:50—Program of Crops and Soils Investigations. W. L. Burlison.

DEPARTMENT OF ANIMAL HUSBANDRY

Sections or classes in Animal Husbandry topics will meet in the Stock Judging Pavilion Wednesday and Thursday; Friday morning in the Farm Mechanics Building, this being a joint session with classes in Farm Mechanics and Farm Management.

Wednesday, January 23

Morning Session—Stock Judging Pavilion

8:30—11:50—Live Stock Demonstrations in charge of W. G. Kammlade.

Hogs

Worming Pigs; Hog Butchering.

Sheep

Worming Lambs; Trimming Sheep for Show; Docking Lambs.

Cattle

Dressing Steers' Hair for Show; Showing Steers; Trimming Cows' Feet; Tuberculosis Eradication.

Horses

Care of Horses' Feet; Adjusting Harness; Horse Hitches.

Poultry

Treating Hens for Lice; Killing and Dry Picking Chickens; Bacillary White Diarrhea; Washing White Hens.

Afternoon Session—Joint Meeting with Dairy Husbandry; Stock Judging Pavilion

1:30—Factors which Influence Animal Breeding. Elmer Roberts. Insect Parasites of Animals. C. L. Metcalf.

2:40—Animal Disease Prevention. Robert Graham.

3:50—Barrenness in Cows, Including Clinical and Laboratory Demonstrations. W. H. Caldwell, Wheaton, Illinois; I. B. Boughton.

Thursday, January 24

Morning Session—Stock Judging Pavilion

8:30—How to Develop Ton Litters. W. H. Smith. Producing Large Litters. E. T. Robbins.

9:40—Utility Type in Hogs. Sleeter Bull. Selecting Brood Sows. R. J. Laible.

10:50—Handling Sheep on the Farm. W. G. Kammlade. Live Stock Shipping Associations. V. Vaniman.

Afternoon Session—Stock Judging Pavilion

1:30—Selecting Beef Cattle for Breeding and Show. R. R. Snapp.

2:40—Beef Production on Corn Farms. H. P. Rusk.

3:50—Selecting Horses for Farm Work. J. L. Edmonds.

Poultry Division

Morning Session—New Agricultural Building

8:30—Incubation on the Farm. G. W. McIlroy.

9:40—Practical Methods of Rearing Chickens. L. E. Card.

10:50—Turkey Management. Harry Axtell, Bloomington, Indiana.

Afternoon Session—New Agricultural Building

- 1:30—Feeding Laying Hens. L. E. Card.
- 2:40—Illinois Accredited Hatcheries. H. W. Day, Springfield, Illinois.
- 3:50—Some Common Poultry Diseases. Robert Graham or I. B. Boughton.

Friday, January 25

Morning Session—Farm Mechanics Building

With Farm Mechanics and Farm Management

- 8:30—Farm Power Requirements. E. Rauchenstein.
- 9:40—Efficiency with Farm Teams. J. L. Edmonds.
- 10:50—Efficient Use of Farm Machinery. R. I. Shawl.

DEPARTMENT OF DAIRY HUSBANDRY

Wednesday, January 23

Morning Session—Room 503 Agricultural Building

- 8:30—Testing Milk and Cream. O. R. Overman.
- 10:50—Essential Factors in Producing High Grade Milk. M. J. Prucha.

Afternoon Session

Sections in Animal Husbandry and Dairy Husbandry will meet together—Stock Judging Pavilion

- 1:30—Factors which Influence Animal Breeding. E. Roberts. Insect Parasites of Animals. C. L. Metcalf.
- 2:40—Animal Disease Prevention. Robert Graham.
- 3:50—Barrenness in Cows, including Clinical and Laboratory Demonstrations. W. H. Caldwell, Wheaton, Illinois; I. B. Boughton.

Thursday, January 24

Morning Session—Stock Judging Pavilion

- 8:30—Judging Dairy Cattle. W. W. Yapp.
- 9:40—Judging Dairy Cattle. (*continued*). W. W. Yapp.
- 10:50—Visit to Dairy Barns.

Afternoon Session

Breeders' Day Program

- 1:30—Some Problems of Milk Production. W. L. Gaines.
- 2:40—Cattle Diseases and Modern Methods of Control. I. B. Boughton.
- 3:50—Pure Bred Bulls in Grade Herds. C. S. Rhode. Sweet Clover and Alfalfa for Pasture. W. J. Fraser.

Friday, January 25

Morning Session

- 8:30—Relation of Dairy Manufactures to Dairy Farming. H. A. Ruehe. Methods for Comparing the Production Records of Dairy Cows. F. A. Davidson.
- 9:40—Red and White Calves in the Holstein Breed. M. H. Campbell. Determination of the Productive Capacity of a Sire. W. W. Yapp.

10:50—The Purpose of Advanced Registration. C. L. Burlingham, Brandon, Vermont.

NOTE: A luncheon will be held at a place to be announced later at 12:15 Friday for those interested in dairy cattle. Dr. L. J. Cole, Head of the Animal Husbandry Division of the United States Department of Agriculture will deliver an address on "Genetic Contributions to Dairy Cattle Breeding."

DEPARTMENT OF FARM MANAGEMENT

Sections or classes in Farm Management will meet in a room in the New Agricultural Building, Wednesday and Thursday; Friday morning at the Farm Mechanics Building, this being a joint session with classes in Farm Mechanics and Animal Husbandry.

Wednesday, January 23

Morning Session—Farm Accounting

8:30—What Accounts Should a Farmer Keep? Emil Rauchenstein.

9:40—Results of Seven Years of Farm Accounting. M. L. Mosher.

10:50—Instruction in Keeping Farm Accounts. H. C. M. Case.

Afternoon Session—Cost Accounting Results and Their Uses

1:30—Cost Accounts on Crops. Emil Rauchenstein.

2:40—Fitting the Livestock System to the Farm. H. C. M. Case.

3:50—Cost Accounts on Hog Production. R. C. Ross.

Thursday, January 24

Morning Session—Farm Planning

8:30—Factors Determining Types of Farming. H. C. M. Case.

9:40—Planning the Farmstead and Field Layout. M. L. Mosher.

10:50—Planning the Farm for Efficient Operation. W. E. Riegel, Tolono, Illinois.

Afternoon Session—Tenancy Problems

1:30—Problems of the Landowner and Tenant.

2:40—Results of Tenancy Studies. H. C. M. Case.

3:50—Round Table Discussion and Conclusions.

Friday, January 25

Morning Session—Farm Power Problems

Joint Session of Animal Husbandry and Farm Management

8:30—Farm Power Requirements. Emil Rauchenstein.

9:40—Efficiency with Farm Teams. J. L. Edmonds.

10:50—Efficient Use of Farm Machinery. R. I. Shawl.

DEPARTMENT OF FARM MECHANICS

Sections or classes for the study of Farm Mechanics will meet in the Farm Mechanics Building on Wednesday and Thursday, and on Friday morning. The entire

program in Farm Mechanics is of a practical nature and is planned to assist the busy farmer in solving some of his every day shop problems. Those who attend the Farm Mechanics Classes should bring their working clothes.

Wednesday, January 23

Morning Session—8:30-9:30, 9:40-10:40, 10:50-11:50—Farm Mechanics Building

General Shop Mechanics: Demonstrations and actual work in pipe fitting, babbitting, bearings, blacksmithing, and special jobs in machine repair, also belt lacing, rope tying and splices, harness repair, and soldering.

If possible, report promptly at 8:30; if not, come at the beginning of any period as demonstrations will be repeated at the beginning of each period. Each person attending will be given an opportunity to get experience in as many of the lines of work listed as time will permit. A. L. Young, I. P. Blauser, R. C. Kelleher, F. R. Wiley.

Afternoon Session—1:30-2:30, 2:40-3:40, 3:50-4:50

Construction Work and Home Equipment: Construction methods and a study of home equipment will be going simultaneously. Those in attendance may take up the line of work in which they are interested. Those interested in construction will cut rafters, frame a small hog house, make concrete posts, hog troughs, etc. Those interested in home equipment will study, operate, and test water system, lighting system, laundry equipment, etc. Those especially interested will be given an opportunity to visit experimental septic tank. E. W. Lehmann, F. P. Hanson, R. C. Kelleher.

Thursday, January 24

Morning Session—Farm Mechanics Building

Field Machinery Repair and Adjustment: Practical instruction in the repair and adjustment of field machinery will be given, and each person will do actual laboratory work.

8:30—Mower Troubles and Adjustments.

9:40—Soybean Harvesting and Threshing Machinery.

10:50—Soybean Harvesting and Threshing Machinery (continued).

Afternoon Session

Field Machinery Repair and Adjustment.

1:30—Binder Head Troubles.

2:40—Knotterhead Tying Troubles.

3:50—Demonstration of Multiple Horse Hitches. R. I. Shawl, F. P. Hanson, A. L. Young, I. P. Blauser.

Thursday, January 24

Gas Engine and Tractor Adjustment and Repair

Morning Session—8:30-9:30; 9:40-10:40; 10:50-11:50

Afternoon Session—1:30-2:30; 2:40-3:40; 3:50-4:50

Instruction and practical shop work will be given throughout the day on engine valve timing, magneto study and timing, valve grinding, bearing fitting, carburetor study and adjustment, study and adjustment of clutches, fitting pistons, wrist pins, rings, valve tappet adjustment, engine and tractor troubles. Instruction in these various adjustments can be taken any time during the day. R. I. Shawl, A. L. Young, F. R. Wiley, F. P. Hanson.

Friday, January 25

Morning Session—Farm Mechanics Building

With Animal Husbandry and Farm Management

8:30- 9:30—Farm Power Requirements. E. Rauchenstein.

9:40-10:40—Efficiency with Farm Teams. J. L. Edmonds.

10:50-11:50—Efficient Use of Farm Machinery. R. I. Shawl.

DEPARTMENT OF HORTICULTURE

Sections or classes for the study of horticultural topics will meet at the Vegetable Greenhouse on the south campus, on Wednesday and Thursday, and on Friday morning.

Wednesday, January 23

Morning Session

8:30—Common Diseases of Fruits. H. W. Anderson.

9:40—Pruning Orchard Fruits. F. E. Carver.

10:50—Pruning Orchard Fruits (continued) F. E. Carver.

Afternoon Session

1:30—Small Fruits on the Farm. A. S. Colby.

2:40—Grape Culture. A. S. Colby.

3:50—Spray Program for Home Orchards. W. A. Ruth.

Thursday, January 24

Morning Session

8:30—The Kind of Garden a Farmer Should Have. G. O. Randall.

9:40—How to Reduce the Cost of Gardening. J. W. Lloyd.

10:50—Controlling Insects and Diseases Attacking Vegetables. C. B. Sayre.

Afternoon Session

1:30—Construction and Management of Hotbeds. C. B. Sayre.

2:40—How to Grow Vegetables in Dry Weather. J. W. Lloyd.

3:50—How to Store Vegetables for Winter. C. S. Dale.

Friday, January 25

Morning Session

8:30—Flowers for the Home. Harry Mohlman.

9:40—Planning and Developing of Rural School Grounds. Karl B. Lohman.

10:50—Planting and Caring for the Farm Home Grounds. Otto G. Schaffer.

**DIVISION OF FLORICULTURE, HORTICULTURAL
DEPARTMENT**

Sections or classes for the study of Floricultural topics will meet at the Floricultural Building on south campus on Tuesday afternoon, Wednesday, Thursday, and Friday morning.

Tuesday, January 22

Afternoon Session

- 1:30—The Future of Floriculture. J. C. Blair.
- 2:40—Fundamentals of Floral Arrangement. H. B. Dorner.
- 3:50—Fundamentals of Floral Arrangement (continued.) H. B. Dorner.

Wednesday, January 23

Morning Session

- 8:30—Growing and Marketing of Pot Plants. H. B. Dorner.
- 9:40—Growing and Marketing of Pot Plants. (continued.) H. B. Dorner.
- 10:50—Experimental Work in Progress. F. F. Weinard.

Afternoon Session

- 1:30—Demonstration in Floral Arrangement.
- 2:40—Demonstration in Floral Arrangement. (continued.)
- 3:50—Demonstration in Floral Arrangement. (continued.)

Thursday, January 24

Morning Session

- 8:30—Greenhouse Soils. S. W. Hall.
- 9:40—Greenhouse Soils (continued.) S. W. Hall.
- 10:50—Diseases of Greenhouse Plants. F. F. Weinard.

Afternoon Session

- 1:30—Herbaceous Perennials. H. B. Dorner.
- 2:40—Demonstration in Floral Arrangement.
- 3:50—Demonstration in Floral Arrangement. (continued.)

Friday, January 25

Morning Session

- 8:30—Insects Affecting Greenhouse Crops. W. P. Flint.
- 9:40—Greenhouse Fertilizers. F. F. Weinard.
- 10:50—Greenhouse Fertilizers. (continued.) F. F. Weinard.

BEEKEEPERS' SESSION

As a new feature of Farmers' Week this year, a section in beekeeping will be conducted. Special consideration will be given to the needs of beginners and to the fundamentals underlying successful apiculture. Room 553—Agricultural Building.

Wednesday, January 23

Morning Session

- 8:30—The Fascination of Keeping Bees. Jay Smith, Vincennes, Indiana.
- 9:40—Honey as a Food. E. R. Root, Medina, Ohio.
- 10:50—Makers of Modern Apiculture. C. P. Dadant, Hamilton, Illinois.

Afternoon Session

- 1:30—Workers for the Harvest. Jay Smith, Vincennes, Indiana.
- 2:40—Harvesting the Crop. G. H. Calc, Hamilton, Illinois.
- 3:50—Marketing Honey. W. A. Hunter, Terre Haute, Indiana.

Thursday, January 24

Morning Session

- 8:30—The Development of the Honeybee. George E. King.
- 9:40—How to Make Increase. C. P. Dedant, Hamilton, Illinois.
- 10:50—Wintering. Wallace Park.

Afternoon Session

- 1:30—Apiary Diagnosis of Diseases. Jay Smith, Vincennes, Indiana.
- 2:40—Fighting American Foulbrood. G. H. Calc, Hamilton, Illinois.
- 3:50—Sweet Clover, How to Grow it. W. L. Burlison .

Friday, January 25

Morning Session

- 8:30—Structure of Flowers in Relation to Insects. William Trelease.
- 9:40—Bees in Relation to Pollination. T. H. Frison—Wallace Park.
- 10:50—Spraying in Relation to Bees. W. A. Ruth.

List of Speakers Appearing on the Program for Farmers' Week from the University of Illinois

Dr. H. W. Anderson, Assistant Professor of Pomological Pathology.
Dr. F. C. Bauer, Professor of Soils Extension.
Dr. J. C. Blair, Professor and Head of Department of Horticulture.
I. P. Blauser, Assistant in Farm Mechanics.
Dr. I. B. Boughton, Associate in Animal Pathology.
Dr. W. L. Burlison, Professor and Head of Department of Agronomy.
Sleeter Bull, Associate Professor of Animal Husbandry.
M. H. Campbell, Associate in Dairy Husbandry.
Dr. L. E. Card, Professor of Poultry Husbandry.
F. E. Carver, Instructor in Pomology.
H. C. M. Case, Assistant Professor of Farm Organization and Management.
Dr. A. S. Colby, Associate Professor of Pomology.
C. S. Dale, Associate in Olericulture.
Dr. Eugene Davenport, Dean and Professor Emeritus, College of Agriculture.
F. A. Davidson, Instructor in Dairy Husbandry.
Dr. E. E. DeTurk, Associate Professor of Soil Technology.
H. B. Dorner, Professor of Floriculture.
J. L. Edmonds, Professor of Horse Husbandry.
W. P. Flint, Chief Entomologist, Natural History Survey.
W. J. Fraser, Professor of Dairy Farming.
Dr. T. H. Frison, Systematic Entomologist, Natural History Survey.
Dr. W. L. Gaines, Professor of Milk Production.
Dr. Robert Graham, Professor of Animal Pathology and Hygiene.
J. C. Hackleman, Professor of Crops Extension.
S. W. Hall, Assistant Professor of Floriculture.
F. P. Hanson, Extension Specialist in Farm Mechanics.
Dr. R. E. Hieronymus, Community Adviser.
Dr. C. F. Hottes, Professor of Botany—Consulting Plant Physiologist in Agronomy.
W. G. Kammlade, Assistant Professor of Sheep Husbandry.
R. C. Kelleher, Assistant in Farm Mechanics.
George E. King, Assistant in Entomology.
Dr. David Kinley, President University of Illinois.
R. J. Laible, Instructor in Animal Husbandry.
E. W. Lehmann, Professor and Head of Department of Farm Mechanics.
Dr. J. W. Lloyd, Professor of Olericulture.
K. B. Lohman, Associate Professor of Landscape Gardening.
G. W. McLlroy, Instructor in Poultry Husbandry.
Dr. C. L. Metcalf, Professor and Head of the Department of Entomology.
Harry Mohlman, Instructor in Floriculture.
M. L. Mosher, Associate in Farm Organization and Management Extension.
H. W. Mumford, Dean of the College of Agriculture.
Dr. O. R. Overman, Assistant Professor of Dairy Chemistry.
Wallace Park, Associate in Apiculture.
John Pieper, Assistant Professor of Agronomy.
Dr. M. J. Prucha, Professor of Dairy Bacteriology.
G. O. Randall, Assistant in Vegetable Extension.
E. Rauchenstein, Assistant Professor of Farm Organization and Management.
C. S. Rhode, Assistant Professor of Dairy Husbandry Extension.
E. T. Robbins, Assistant Professor of Animal Husbandry Extension.
Dr. Elmer Roberts, Assistant Professor of Animal Breeding.
R. C. Ross, Assistant in Farm Organization and Management.
Dr. H. A. Ruehe, Professor and Head of Department of Dairy Husbandry.
H. P. Rusk, Professor and Head of Department of Animal Husbandry.
Dr. W. A. Ruth, Assistant Professor of Pomological Physiology.
C. B. Sayre, Assistant Professor of Olericulture.
Otto G. Schaffer, Associate in Landscape Gardening.
O. H. Sears, Assistant Professor of Soil Biology.
R. I. Shawl, Assistant Professor of Farm Mechanics.
Dr. L. H. Smith, Chief in Charge of Publications of Soil Survey.

Dr. R. S. Smith, Associate Professor of Soil Physics.
 W. H. Smith, State Leader Farm Advisers, Associate Professor of Animal Husbandry.
 R. R. Snapp, Assistant Professor of Animal Husbandry.
 H. J. Snider, Assistant Chief, Soil Experiment Fields.
 Dr. C. M. Thompson, Dean of College of Commerce and Business Administration.
 Dr. William Trelease, Professor and Head of the Department of Botany.
 V. Vaniman, Assistant State Leader of Farm Advisers.
 Dr. F. F. Weinard, Associate in Floricultural Physiology.
 F. R. Wiley, Mechanic in Farm Mechanics.
 Dr. C. M. Woodworth, Associate Professor of Plant Breeding.
 Dr. W. W. Yapp, Assistant Professor of Dairy Cattle.
 A. L. Young, Instructor in Farm Mechanics.

List of Persons Appearing on the Program for Farmers' Week from Outside the University

Honorable A. N. Abbott, Morrison, Illinois.
 Honorable James B. Aswell, Member of Congress from Louisiana, Washington, D. C.
 Harry Axtell, Turkey breeder, Bloomington, Indiana.
 C. L. Burlingham, Secretary Ayrshire Breeders' Association, Brandon, Vermont.
 Dr. W. H. Caldwell, Veterinarian, Wheaton, Illinois.
 G. H. Cale, With the Dadent Apiaries, Hamilton, Illinois.
 Dr. L. J. Cole, Head of the Animal Husbandry Division of the United States Department of Agriculture, Washington, D. C.
 W. C. Corsa, White Hall, Illinois.
 C. P. Dadant, Editor, American Bee Journal, Hamilton, Illinois.
 H. W. Day, Bureau of Standardization and Markets, Springfield, Illinois.
 Wayne Dinsmore, Secretary Horse Association of America, Union Stock Yards, Chicago, Illinois.
 S. W. Doty, Manager Chicago Producers' Commission Association, Union Stock Yards, Chicago, Illinois.
 Honorable H. M. Dunlap, Savoy, Illinois.
 E. A. Eckert, Master Illinois State Grange, Mascoutah, Illinois.
 Dr. W. J. Embree, Western Weighing and Inspection Bureau, Chicago, Illinois.
 George E. Frazer, Chicago, Illinois.
 F. F. Frye, Western Weighing and Inspection Bureau, Chicago, Illinois.
 J. R. Holbert, In Charge Corn Disease Investigations, Bureau of Plant Industry U. S. Department, Bloomington, Illinois.
 W. A. Hunter, Terre Haute, Indiana.
 A. B. Leeper, Illinois Agricultural Association, Chicago, Illinois.
 Frank I. Mann, Gilman, Illinois.
 Joe Marshall, Special representative, Freight Claim Prevention, American Railway Association, Chicago.
 Dr. William L. Noble, President, Board of Trustees, University of Illinois, Chicago.
 Dr. C. V. Piper, In Charge Forage Crop Investigations, Bureau of Plant Industry, Washington, D. C.
 W. E. Riegel, Tolono, Illinois.
 George E. Roberts, Vice-President, The National City Bank, New York City, New York.
 E. R. Root, Editor, Gleanings and Bee Culture, Medina, Ohio.
 H. A. Ross, Cornell University, Ithaca, New York.
 H. J. Sconce, Sidell, Illinois.
 Jay Smith, Breeder of Queen Bees, Vincennes, Indiana.
 Professor W. H. Stevenson, Head of Department of Farm Crops and Soils, Iowa State College, Ames, Iowa.
 S. H. Thompson, President Illinois Agricultural Association, Quincy, Illinois.
 Dr. George E. Vincent, President Rockefeller Institute, New York.
 John C. Watson, Illinois Agricultural Association, Chicago, Illinois.
 Dr. Warren H. Wilson, Teachers' College, Columbia University, New York.
 F. E. Winburn, Special representative, Freight Claim Prevention American Railway Association, Chicago.

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UNIVERSITY OF ILLINOIS BULLETIN

ISSUED WEEKLY

Vol. XX

JANUARY 15, 1923

No. 20

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PROGRAM

FARMERS' WEEK

College of Agriculture, University of Illinois
January 22-26, 1923
Urbana-Champaign

YOUR INVITATION

A GOOD New Year's resolution for every farmer in Illinois to make is to visit the College of Agriculture and the Agricultural Experiment Station as often as possible. It is your institution and we are anxious that the farmers of the state make the fullest possible use of it.

Farmers' Week furnishes a favorable opportunity during the dull season to visit the College and at the same time secure valuable information and inspiration from a carefully planned program designed to furnish the maximum amount of information in a minimum of time. Your presence here will be a source of encouragement to our College faculty and Experiment Station staff, and the contacts and acquaintances made will be helpful in keeping us in close touch with your problems and more helpful in meeting them. Possibly of equal importance is the opportunity such a meeting affords those in attendance of coming in contact with leading farmers from all parts of the state.

Please consider this a personal invitation to you to come.

I believe so strongly in the very great opportunity for mutual helpfulness which this Farmers' Week affords that I do not hesitate to urge your attendance.



Dean and Director, College of Agriculture
and Agricultural Experiment Station

RAILROADS GRANT REDUCED RATES

Reduced railroad rates. One and one-half fare (minimum \$1.00) for round trip from all stations in Illinois and from St. Louis, Mo., to Urbana and Champaign, during Farmers' Week. Tickets on sale January 20-27, inclusive; return limit, January 29, 1923.

The Western Passenger Association submits the following:

"We take pleasure in advising that our lines will authorize the following arrangements, which we trust will be entirely satisfactory:

"Open rate of fare and one-half with minimum excursion fare of \$1.00 from points in Illinois, also from St. Louis, Mo., to Urbana and Champaign and return; excursion tickets to be sold on January 20-27, inclusive, with final return limit of January 29, 1923.

Yours truly,

EBEN E. MACLEOD
Chairman"

The Central Passenger Association writes as follows:

"Having submitted your request to carriers of this Association operating in Illinois, we are individually informed that they will publish an open rate of one and one-half fare for the round trip to Urbana and Champaign from points in the State of Illinois, also from St. Louis, Mo.; minimum selling fare \$1 00; half the concession to apply for children of half-fare age, namely, for children five years of age and under twelve years of age; tickets will be sold January 20th to 27th, inclusive, and will be good for return to reach original starting point not later than midnight of Monday, January 29, 1923.

"Chairman MacLeod of the Western Passenger Association will inform you with respect to that portion of Illinois not within the territory of the Central Passenger Association.

Yours truly,

C. A. Fox
Chairman"

ANNOUNCEMENT

For twenty-one years there has been held annually at the University of Illinois a meeting known as the Corn Growers' and Stockmen's Convention. After careful consideration by all the interests involved, it has been concluded best to merge this meeting into a one-week gathering to be known as Farmers' Week.

The only expenses of attending Farmers' Week will be those of travel and board. There are no registration fees and no educational requirements. Citizens attending the meeting are requested to register immediately upon their arrival, at the main office of the Agricultural Building.

The University Y. M. C. A., adjoining the Campus at the corner of Green and Wright Streets, will, as usual, make an effort to locate rooms in private homes that will be available to visitors for the week. All applications for such rooms should be made at the Y. M. C. A. Accommodations may also be secured at the following hotels: Hotel Inman, Beardsley Hotel, and Hamilton Hotel, Champaign, European, \$1.50 and up per person; Columbian Hotel, Urbana, European, \$1.00 and up per person.

Aside from cafés in connection with hotels, there are numerous places where meals can be had both in the down-town and in the University districts.

The program for the week is especially arranged to meet the needs of farmers and farmers' sons. The farm as a unit will be considered, opening and closing sessions being devoted to subjects of basic importance in agriculture. Six different sections, with some fifteen class periods each, will be devoted to lectures, discussions, and demonstrations. You can choose the special topics that will do *you* the most good on *your* farm, and learn new and better ways which you can put into practice in your farming operations and in your own home.

The University has been fortunate in securing for the week the splendid Live Stock Exhibit of the United States Department of Agriculture, recently shown at the International at Chicago. The extent of the exhibit may be appreciated by the fact that it comprises a full carload of material.

The Third Annual Utility Corn Show will be held in connection with Farmers' Week. All ten-ear samples of corn will be tested on the germinator, and the growing seedlings will be on display with each sample. A large display of the remnants of last year's show samples, with corn they produced, and data as to comparative yields is an additional feature. Special effort is being made to make this show of great educational value. Corn should be in Urbana not later than January 10. Write the College of Agriculture for information regarding this show.

A "good fellowship" banquet will be held on Friday evening, January 26, as a "round-up" feature of the meeting.

PROGRAM

MONDAY, JANUARY 22, 1923

No classes or meetings will be held Monday forenoon. This time will be used for registration at the general office, Room 100, Agricultural Building. Opportunities will be afforded for inspection of the Agricultural Building, the Museum in the Natural History Building, and farm machinery and equipment in the Farm Mechanics Building.

Afternoon Session—Auditorium

Mr. Frank H. McKelvey, Springfield, Illinois, Presiding

1:30- 2:00—Opening Remarks.

2:00- 3:00—Soil Preservation for Permanent Production. Professor F. C. Bauer.

3:00- 4:00—Plant Relationships, with Special Reference to Crop Rotation. Professor W. L. Burlison.

4:00- 5:00—Results and Importance of Farm Accounting. Professor H. C. M. Case.

Evening Session—Auditorium, Music

Mr. Charles A. Ewing, Decatur, Illinois, Presiding

7:30 —The Farmer and the Nation. Dr. Liberty Hyde Bailey, Ithaca, New York, formerly Dean of the New York State College of Agriculture.

TUESDAY, JANUARY 23

Morning Session—Auditorium

Hon. A. N. Abbott, Morrison, Illinois, Presiding

8:30-10:30—Side Lines as a Means of Increasing the Farm Income.

a. Poultry. Professor L. E. Card.

b. Garden. Professor J. W. Lloyd.

c. Improving Home Grounds. Professor J. C. Blair.

10:30-11:50—Factors Determining Systems of Farming in Illinois. Dean H. W. Mumford; Mr. Charles A. Ewing, Decatur, Illinois.

Afternoon Session, Tuesday

Plant Section—Auditorium

1:30- 2:30—Creating Plants with Desirable Characteristics. Professor C. M. Woodworth, Professor C. S. Crandall.

2:40- 3:40—Plant Nutrition as It Affects Farming Practices. Professor C. F. Hottes.

3:50- 4:50—Stopping the Leaks (plant diseases, insects, and weeds). Mr. G. H. Dungan, Mr. W. P. Flint, Professor H. W. Anderson.

Animal Section—Stock Judging Pavilion

- 1:30- 2:30—Heredity in Relation to Animal Breeding. Professor Elmer Roberts.
2:40- 3:40—The Utilization of Illinois Feeds for Increased Efficiency in Live Stock Production. Professor H. S. Grindley.
3:50- 4:50—Live Stock Hygiene and Sanitation. Dr. I. B. Boughton.

Evening Session, Tuesday—Auditorium, Music

- Mr. F. H. Simpson, Flora, Illinois, President State Horticultural Society, Presiding
7:30 —The Agricultural Crisis and Its Causes. Hon. Sydney Anderson, Washington, D. C.

WEDNESDAY, JANUARY 24

Morning Session

Sections in Agronomy, Animal Husbandry, Dairy Husbandry, and Farm Management will meet together in Auditorium

- 8:30- 9:30—Important Plant Food Elements in Farm Manure. Professor Sleeter Bull.
9:40-10:40—Effective Utilization of Farm Manures. Professor E. E. DeTurk.
10:50-11:50—Clovers as Pasture, Especially Sweet Clover. Professor H. P. Rusk, Professor W. B. Nevens.

Section in Farm Mechanics—Farm Mechanics Building

- 8:30- 9:30—Concrete on the Farm. Mr. W. G. Kaiser, Chicago, Illinois.
9:40-10:40—Types, Requirements, and Essential Features of Hog Houses. Professor E. W. Lehmann.
10:50-11:50—Types of Dairy Barns, Their Chief Requirements. Mr. F. P. Hanson.

Section in Horticulture—Vegetable Gardening Greenhouse

- 8:30- 9:30—The Kind of Garden a Farmer Should Have. Professor C. B. Sayre.
9:40-10:40—How to Reduce the Cost of Gardening. Professor J. W. Lloyd.
10:50-11:50—Controlling Insects and Diseases Attacking Vegetables. Professor C. B. Sayre.

Afternoon Session, Wednesday

Section in Agronomy—Auditorium

- 1:30- 2:30—Controlling Rot Diseases of Corn. Professor E. E. DeTurk, Mr. G. H. Dungan.
2:40- 4:50—Room 600, Agricultural Building. *What the Corn Exhibit Shows.* Be sure to see the samples from last year's show, their yields and the quality of the product. Examine carefully the samples of this year's show and their germinating seedlings. Discussion led by Professor J. C. Hackleman.
5:00 —Meeting of Members of Crop Improvement Association
Dinner at Inman Hotel.

Sections in Animal Husbandry and Dairy Husbandry will meet together in Stock Judging Pavilion

- 1:30- 2:30—Cheaper Pigs at Weaning Time. Professor W. H. Smith.
Eat More of Your Own Pork. Professor Sleeter Bull.
2:40- 3:40—Sow Selection. Mr. R. J. Laible.
3:50- 4:50—Recent Results in Pig Feeding. Mr. J. B. Rice.

Section in Farm Management—Genetics Building

- 1:30- 2:30—Relation of Costs and Market Prices. Professor H. C. M. Case.
2:40- 3:40—Costs in Producing Farm Products. Mr. W. J. Roth.
3:50- 4:50—Methods of Analyzing the Farm Business. Professor E. Rauchenstein, Professor R. L. Donovan.

Section in Farm Mechanics—Farm Mechanics Building

- 1:30- 2:30—Water Systems for the Farm Home. Professor E. W. Lehmann, Mr. R. C. Kelleher.
2:40- 3:40—Heating and Lighting the Farm Home. Mr. F. P. Hanson, Mr. R. C. Kelleher.
3:50- 4:50—Laundry Equipment as a Labor Saver. Professor E. W. Lehmann, Mr. R. C. Kelleher.

Section in Horticulture—Vegetable Gardening Greenhouse

- 1:30- 2:30—How to Grow Vegetables in Dry Weather. Professor J. W. Lloyd.
2:40- 3:40—How to Store Vegetables for Winter. Mr. C. S. Dale.
3:50- 4:50—Small Fruits on the Farm. Professor A. S. Colby.

Evening Session, Wednesday—Auditorium, Music

Mr. Frank I. Mann, Gilman, Illinois, President
Illinois Farmers' Institute, Presiding

- 7:30 —Taxation. Hon. H. T. Rainey, Carrollton, Illinois, member of House of Representatives, Washington, D. C.

THURSDAY, JANUARY 25

Morning Session

Section in Agronomy—Auditorium

- 8:30- 9:30—Utility Seed Corn in Action on Illinois Farms. Professor J. C. Hackleman, Mr. F. A. Fisher, Mt. Carmel, Mr. Claire Golden, Cordova, Mr. O. J. Sommer, Pekin.
9:40-10:40—Feeding Power of Plants. Professor F. C. Bauer, Professor C. F. Hottes.
10:50-11:50—Joint meeting in Auditorium with Animal Husbandry and Dairy Husbandry sections.
Utilization of Nitrogenous Crops with Special Reference to Soybeans. Professor W. H. Smith, Professor J. C. Hackleman.

Section in Animal Husbandry—Stock Judging Pavilion

- 8:30- 9:30—Problems of the Farm Feed Lot. Professor R. R. Snapp.
9:40-10:40—Beef Type and Breed Types, Their Relative Importance
in Judging. Professor R. R. Snapp.
10:50-11:50—Joint meeting with Agronomy and Dairy Husbandry
sections in Auditorium.

Section in Dairy Husbandry—Stock Judging Pavilion

- 8:30- 9:30—Judging Dairy Cattle. Professor W. W. Yapp.
9:40-10:40—Judging Dairy Cattle (Continued). Professor W. W.
Yapp.
10:50-11:50—Joint meeting with Agronomy and Animal Husbandry
sections in Auditorium.

*Sections in Farm Mechanics and Farm Management will meet
together in Farm Mechanics Building*

- 8:30- 9:30—Means of Increasing the Efficiency in Farm Operation.
Professor E. Rauchenstein.
9:40-10:40—Efficient Use of Farm Machinery and Mechanical Pow-
er. Professor R. I. Shawl.
10:50-11:50—Efficiency in the Use of Horse Labor. Professor J. L.
Edmonds.

Section in Horticulture—Vegetable Gardening Greenhouse

- 8:30- 9:30—Grape Culture. Professor A. S. Colby.
9:40-10:40—Pruning Orchards. Professor B. S. Pickett.
10:50-11:50—Pruning Orchards (Continued). Professor B. S. Pickett.

Afternoon Session, Thursday

Section in Agronomy—Auditorium

- 1:30- 2:30—Soils, Their Nature, Composition, and Relation to Crop
Production. Professor R. S. Smith.
2:40- 3:40—Soil Organic Matter, Its Importance and Maintenance.
Professor O. H. Sears, Professor D. C. Wimer.
3:50- 4:50—Value and Use of Legumes for Soil Improvement. Pro-
fessor L. H. Smith.

Section in Animal Husbandry—Stock Judging Pavilion

- 1:30- 2:30—Future of Illinois Horse Breeding. Professor J. L. Ed-
monds.
2:40- 3:40—Desirable Types of Draft Horses. Professor J. L. Ed-
monds.
3:50- 4:50—Corn Belt Feeds for Corn Belt Hens. Professor L. E.
Card.

Section in Dairy Husbandry—Stock Judging Pavilion

- 1:30- 2:30—Feeding of Dairy Cattle. Professor W. B. Nevens.
2:40- 3:40—Testing Milk and Cream. Professor O. R. Overman.
3:50- 4:50—Testing Milk and Cream (Continued). Professor O. R.
Overman.

Section in Farm Management—Genetics Building

- 1:30 -2:30—Planning the Farm for Economical Production. Mr. W. E. Riegel, Tolono, Illinois.
2:40- 3:40—Planning the Layout of the Field System and Buildings. Professor R. L. Donovan.
3:50- 4:50—What Accounts Shall the Farmer Keep? Mr. W. J. Roth.

Section in Farm Mechanics—Farm Mechanics Building

- 1:30- 2:30—Care and Adjustment of Field and Power Machinery. Professor R. I. Shawl, Mr. J. H. Hedgcock.
2:40- 3:40—How to Avoid Tractor Troubles. Professor R. I. Shawl.
3:50- 4:50—Harvesting and Threshing Soybeans. Mr. J. H. Hedgcock.

Section in Horticulture—Vegetable Gardening Greenhouse

- 1:30- 2:30—Spray Program for Home Orchards. Professor W. A. Ruth.
2:40- 3:40—Plant Propagation. Professor H. B. Dorner.
3:50- 4:50—Plant Propagation (Continued). Professor H. B. Dorner.

Evening Session, Thursday, Auditorium, Music

- Mr. Harvey J. Sconce, Sidell, Illinois, Presiding
7:30 —The Farmer, The Public, and the Government. President David Kinley, University of Illinois.

FRIDAY, JANUARY 26

Morning Session

Section in Agronomy—Auditorium

- 8:30- 9:30—Soil Acidity, Its Development, Effects, and Control. Professor R. S. Smith.
9:40-10:40—Phosphate, Potash, and Sulfur Problems in Improvement of Illinois Soils. Professor E. E. DeTurk.
10:50-11:50—Significant Lessons from Illinois Soil Experiment Fields. Professor H. J. Snider.

Section in Animal Husbandry—Stock Judging Pavilion

- 8:30- 9:30—Hatching Chicks on the Farm. Professor L. E. Card.
9:40-10:40—Sheep—Suggestions for the Improvement of the Farm Flock. Mr. W. G. Kammlade.
10:50-11:50—Feeding Western Lambs. Mr. W. G. Kammlade.

Section in Dairy Husbandry—Stock Judging Pavilion

- 8:30- 9:30—Judging Dairy Cattle. Professor W. W. Yapp.
9:40-10:40—Judging Dairy Cattle (Continued). Professor W. W. Yapp.
10:50-11:50—Feeding of Dairy Cattle. Professor W. B. Nevens.

Section in Farm Management—Genetics Building

- 8:30- 9:30—Tenancy as a National Problem. Dr. L. C. Gray, Washington, D. C.
9:40-10:40—Tenancy Problems in Illinois. Professor H. C. M. Case.
10:50-11:50—Means of Improving Tenancy Conditions. Mr. J. D. Bilsborrow.

Section in Farm Mechanics—Farm Mechanics Building

- 8:30- 9:30—Rope Splices and Knots Every Farmer Should Know. Mr. C. A. Scholl, Mr. J. H. Hedgecock.
9:40-10:40—Practical Repair Jobs for the Farmer (A Demonstration). Mr. C. A. Scholl, Mr. J. H. Hedgecock, Mr. F. Wiley.
10:50-11:50—Question Box. Inspection of Equipment and Machinery in Farm Mechanics Building. Farm Mechanics Staff.

Section in Horticulture—Vegetable Gardening Greenhouse

- 8:30- 9:30—Garden Flowers. Professor H. B. Dorner.
9:40-10:40—Landscape Development of the Farm Home Grounds. Mr. O. G. Schaffer.
10:50-11:50—Planning and Developing Rural Parks and Playgrounds. Professor Karl B. Lohmann.

Afternoon Session, Friday—Auditorium

Mr. Howard Leonard, Eureka, Illinois, President Illinois
Agricultural Association, Presiding

- 1:30- 2:30—The Farmer's Part in Solving the Market Problems. Mr. L. S. Tenney, Assistant Chief, Bureau Agricultural Economics, Washington, D. C.
2:40- 3:40—General Principles of Cooperation Among Farmers. Hon. Howard M. Gore, Packers and Stock Yards Administration, Washington, D. C.
3:50- 4:50—The Relation of the Farmer to his Farm Organizations. Hon. C. W. Pugsley, Assistant Secretary of Agriculture, Washington, D. C.
6:00 —“Good Fellowship” Banquet. Professor Sleeter Bull, Chairman of Committee on Arrangements. Mr. J. V. Stevenson, Streator, Illinois, Toastmaster.

PROGRAM OUTLINED BY DEPARTMENTS

For convenience, the following outline shows the arrangement of the class periods or sectional meetings, by Departments, and the topics under discussion for each day:

DEPARTMENT OF AGRONOMY

Sections or classes for the study of Farm Crops and Soils will meet in the Auditorium for both morning and afternoon sessions on Wednesday and Thursday and for the morning session on Friday.

Wednesday, January 24

Morning Session

- 8:30—Important Plant Food Elements in Farm Manure. Professor Sleeter Bull.
- 9:40—Effective Utilization of Farm Manure. Professor E. E. DeTurk.
- 10:50—Clovers as Pasture, Especially Sweet Clover. Professor H. P. Rusk, Professor W. B. Nevens.

Afternoon Session

- 1:30—Controlling Rot Diseases of Corn. Professor E. E. DeTurk, Mr. G. H. Dungan.
- 2:40—Room 600, Agricultural Building. *What the Corn Exhibit Shows.* Be sure to see the samples from last year's show, their yields and the quality of the product. Examine carefully the samples of this year's show and their germinating seedlings. Discussion led by Professor J. C. Hackleman.
- 5:00—Meeting of Members of Crop Improvement Association. Dinner at Inman Hotel.

Thursday, January 25

Morning Session

- 8:30—Utility Seed Corn in Action on Illinois Farms. Professor J. C. Hackleman; Mr. F. A. Fisher, Mt. Carmel, Illinois; Mr. Claire Golden, Cordova, Illinois; Mr. O. J. Sommer, Pekin, Illinois.
- 9:40—Feeding Power of Plants. Professor F. C. Bauer, Professor C. F. Hottes.
- 10:50—Utilization of Nitrogenous Crops, with Special Reference to Soybeans. Professor W. H. Smith, Professor J. C. Hackleman.

Afternoon Session

- 1:30—Soils, Their Nature, Composition, and Relation to Crop Production. Professor R. S. Smith.
- 2:40—Soil Organic Matter, Its Importance and Maintenance. Professor O. H. Sears, Professor D. C. Wimer.
- 3:50—Value and Use of Legumes for Soil Improvement. Professor L. H. Smith.

Friday, January 26

Morning Session

- 8:30—Soil Acidity, Its Development, Effects, and Control. Professor R. S. Smith.
9:40—Phosphate, Potash, and Sulfur Problems in Improvement of Illinois Soils. Professor E. E. DeTurk.
10:50—Significant Lessons from Illinois Soil Experiment Fields. Professor H. J. Snider.

DEPARTMENT OF ANIMAL HUSBANDRY

Sections or classes for the Study of Animal Husbandry topics will meet in the Auditorium on Wednesday morning, uniting with the sections in Agronomy, Dairy Husbandry, and Farm Management. On Wednesday afternoon, for both sessions Thursday, and on Friday morning, Animal Husbandry sections will meet in the Stock Judging Pavilion.

Wednesday, January 24

Morning Session

- 8:30—Important Plant Food Elements in Farm Manure. Professor Sleeter Bull.
9:40—Effective Utilization of Farm Manures. Professor E. E. DeTurk.
10:50—Clovers as Pasture, Especially Sweet Clover. Professor H. P. Rusk, Professor W. B. Nevens.

Afternoon Session—Swine

- 1:30—Cheaper Pigs at Weaning Time. Professor W. H. Smith.
Eat More of Your Own Pork. Professor Sleeter Bull.
2:40—Sow Selection. Mr. R. J. Laible.
3:50—Recent Results in Pig Feeding. Mr. J. B. Rice.

Thursday, January 25

Morning Session—Beef Cattle

- 8:30—Problems of the Farm Feed Lot. Professor R. R. Snapp.
9:40—Beef Type and Breed Types, Their Relative Importance in Judging. Professor R. R. Snapp.
10:50—Utilization of Nitrogenous Crops, with Special Reference to Soybeans. Professor W. H. Smith, Professor J. C. Hackleman.

Afternoon Session—Horses and Poultry

- 1:30—Future of Illinois Horse Breeding. Professor J. L. Edmonds.
2:40—Desirable Types of Draft Horses. Professor J. L. Edmonds.
3:50—Corn Belt Feeds for Corn Belt Hens. Professor L. E. Card.

Friday, January 26

Morning Session—Poultry and Sheep

- 8:30—Hatching Chicks on the Farm. Professor L. E. Card.
9:40—Sheep—Suggestions for the Improvement of the Farm Flock.
Mr. W. G. Kammlade.
10:40—Feeding Western Lambs. Mr. W. G. Kammlade.

DEPARTMENT OF DAIRY HUSBANDRY

Sections or classes for the study of Dairy Husbandry topics will meet in the Auditorium on Wednesday morning, uniting with the sections in Agronomy, Animal Husbandry, and Farm Management. On Wednesday afternoon, for both sessions on Thursday, and on Friday morning, Dairy Husbandry sections will meet in the Stock Judging Pavilion.

Wednesday, January 24

Morning Session

- 8:30—Important Plant Food Elements in Farm Manure. Professor Sleeter Bull.
- 9:40—Effective Utilization of Farm Manures. Professor E. E. De-Turk.
- 10:50—Clovers as Pasture, Especially Sweet Clover. Professor H. P. Rusk, Professor W. B. Nevens.

Afternoon Session—Joint Meeting with Animal Husbandry

- 1:30—Cheaper Pigs at Weaning Time. Professor W. H. Smith.
Eat More of Your Own Pork. Professor Sleeter Bull.
- 2:40—Sow Selection. Mr. R. J. Laible.
- 3:50—Recent Results in Pig Feeding. Mr. J. B. Rice.

Thursday, January 25

Morning Session

- 8:30—Judging Dairy Cattle. Professor W. W. Yapp.
- 9:40—Judging Dairy Cattle (Continued). Professor W. W. Yapp.
- 10:50—Utilization of Nitrogenous Crops, with Special Reference to Soybeans. Professor W. H. Smith, Professor J. C. Hackleman. Auditorium. Joint meeting with Agronomy and Animal Husbandry.

Afternoon Session

- 1:30—Feeding of Dairy Cattle. Professor W. B. Nevens.
- 2:40—Testing Milk and Cream. Professor O. R. Overman.
- 3:50—Testing Milk and Cream (Continued). Professor O. R. Overman.

Friday, January 26

Morning Session

- 8:30—Judging Dairy Cattle. Professor W. W. Yapp.
- 9:40—Judging Dairy Cattle (Continued). Professor W. W. Yapp.
- 10:50—Feeding of Dairy Cattle. Professor W. B. Nevens.

DEPARTMENT OF FARM MANAGEMENT

Wednesday, January 24

Sections or classes for the study of Farm Management topics will meet in the Auditorium on Wednesday morning, uniting with the sections in Agronomy, Animal Husbandry, and Dairy Husbandry. On Wednesday afternoon Farm Management sections will meet in the Genetics Building on the south campus. On Thursday morning they will meet in the Farm Mechanics Building; on Thursday afternoon and Friday morning, in the Genetics Building.

Morning Session

- 8:30—Important Plant Food Elements in Farm Manure. Professor Sleeter Bull.
9:40—Effective Utilization of Farm Manures. Professor E. E. De-Turk.
10:50—Clovers as Pasture, Especially Sweet Clover. Professor H. P. Rusk, Professor W. B. Nevens.

Afternoon Session—Cost of Production

- 1:30—Relation of Costs and Market Prices. Professor H. C. M. Case.
2:40—Costs in Producing Farm Products. Mr. W. J. Roth.
3:50—Methods of Analyzing the Farm Business. Professor E. Rauchenstein, Professor R. L. Donovan.

Thursday, January 25

Morning Session—Efficient Farm Operation. Held in Farm Mechanics Building in cooperation with Farm Mechanics.

- 8:30—Means of Increasing the Efficiency in Farm Operations. Professor E. Rauchenstein.
9:40—Efficient Use of Farm Machinery and Mechanical Power. Professor R. I. Shawl.
10:50—Efficiency in the Use of Horse Labor. Professor J. L. Edmonds.

Afternoon Session—The Organization of the Farm Business

- 1:30—Planning the Farm for Economical Production. Mr. W. E. Riegel, Tolono, Illinois.
2:40—Planning the Layout of the Field System and Buildings. Professor R. L. Donovan.
3:50—What Accounts Shall the Farmer Keep? Mr. W. J. Roth.

Friday, January 26

Morning Session—Tenancy

- 8:30—Tenancy as a National Problem. Dr. L. C. Gray, Washington, D. C.
9:40—Tenancy Problems in Illinois. Professor H. C. M. Case.
10:50—Means of Improving Tenancy Conditions. Mr. J. D. Bilsborrow.

DEPARTMENT OF FARM MECHANICS

Sections or classes for the study of Farm Mechanics will meet in the Farm Mechanics Building on Wednesday and Thursday, and on Friday morning.

Wednesday, January 24

Morning Session—Farm Buildings

- 8:30—Concrete on the Farm. Mr. W. G. Kaiser, Chicago, Illinois.
9:40—Types, Requirements, and Essential Features of Hog Houses. Professor E. W. Lehmann.
10:50—Types of Dairy Barns, Their Chief Requirements. Mr. F. P. Hanson.

Afternoon Session—Farm Home Equipment

- 1:30—Water Systems for the Farm Home. Professor E. W. Lehmann, Mr. R. C. Kelleher.
- 2:40—Heating and Lighting the Farm Home. Mr. F. P. Hanson, Mr. R. C. Kelleher.
- 3:50—Laundry Equipment as a Labor Saver. Professor E. W. Lehmann, Mr. R. C. Kelleher.

Thursday, January 25

Morning Session—Power Machinery Labor. Joint meeting with Farm Management

- 8:30—Means of Increasing the Efficiency of Farm Operations. Professor E. Rauchenstein.
- 9:40—Efficient Use of Machinery and Mechanical Power. Professor R. I. Shawl.
- 10:50—Efficiency in the Use of Horse Labor. Professor J. L. Edmonds.

Afternoon Session—Machinery and Tractors

- 1:30—Care and Adjustment of Field and Power Machinery. Professor R. I. Shawl, Mr. J. H. Hedgcock.
- 2:40—How to Avoid Tractor Troubles. Professor R. I. Shawl.
- 3:50—Harvesting and Threshing Soybeans. Mr. J. H. Hedgcock.

Friday, January 26

Morning Session—General Mechanics

- 8:30—Rope Splices and Knots Every Farmer Should Know. Mr. C. A. Scholl, Mr. J. H. Hedgcock.
- 9:40—Practical Repair Jobs for the Farmer (A demonstration). Mr. C. A. Scholl, Mr. J. H. Hedgcock, Mr. F. Wiley.
- 10:50—Question Box. Inspection of Equipment and Machinery in Farm Mechanics Building. Farm Mechanics Staff.

SPECIAL EXHIBIT

A special Building and Home Equipment exhibit can be seen in the Farm Mechanics Building. Models of farm buildings, samples of building materials, and plans for different types of buildings are on exhibit. A number of different water, lighting, and heating systems, and different types of laundry equipment will also be on display. The exhibit will be given special attention at the Wednesday sessions and will be open to visitors on Thursday and Friday at four o'clock.

DEPARTMENT OF HORTICULTURE

Sections or classes for the study of horticultural topics will meet in the Vegetable Gardening Greenhouse on the south campus, on Wednesday and Thursday, and on Friday morning.

Wednesday, January 24

Morning Session

- 8:30—The Kind of Garden a Farmer Should Have. Professor C. B. Sayre.
- 9:40—How to Reduce the Cost of Gardening. Professor J. W. Lloyd.
- 10:50—Controlling Insects and Diseases Attacking Vegetables. Professor C. B. Sayre.

Afternoon Session

- 1:30—How to Grow Vegetables in Dry Weather. Professor J. W. Lloyd.
- 2:40—How to Store Vegetables for Winter. Mr. C. S. Dale.
- 3:50—Small Fruits on the Farm. Professor A. S. Colby.

Thursday, January 25

Morning Session

- 8:30—Grape Culture. Professor A. S. Colby.
- 9:40—Pruning Orchards. Professor B. S. Pickett.
- 10:50—Pruning Orchard (Continued). Professor B. S. Pickett.

Afternoon Session

- 1:30—Spray Program for Home Orchards. Professor W. A. Ruth.
- 2:40—Plant Propagation. Professor H. B. Dorner.
- 3:50—Plant Propagation (Continued). Professor H. B. Dorner.

Friday, January 26

Morning Session

- 8:30—Garden Flowers. Professor H. B. Dorner.
- 9:40—Landscape Development of the Farm Home Grounds. Mr. O. G. Schaffer.
- 10:50—Planning and Developing Rural Parks and Playgrounds. Professor Karl B. Lohmann.

